

MUSATOV, T.P.

MUSATOV, T.P. inzh.; SHCHUKIN, B.D.; FIKSMAN, S.I. (Odessa)

~~GERSHKOVICH, S.F.; SHNEL', R.V.; DODIN, Ya.I.; ZEYLIDSON,~~
Ye.D.

Problem of automation and remote control in industrial sub-
stations. Prom.energ. 12 no.8:1-7 Ag '57. (MIRA 10:10)

1. Stalinskiy setevoy rayon Donbassenergo (for Musatov).
2. Gidroproyekt, g. Kuybyshev (for Shchukin).
3. Novo-Kemerovskiy khimkombinat (for Gershkovich).
4. Novosibirskoye otdeleniye Gosudarstvennogo proyektного instituta Elektroproyekt (for Shnell').
5. Leninogorskiy polimetallicheskiy kombinat (for Dodin).
6. Tekhnicheskoye upravleniye Ministerstva elektrostantsiy (for Zeylidzon).

(Electric power) (Automatic control)

AUTHOR: Musatov, T.P., Engineer.

104-2-27/38

TITLE: On inspecting the guide tubes of circuit breakers types
BM-35 and ~~BMA~~-35. (Ob osmotre napravlyayushchey truby
vykluchateley tipov VM-35 i VMD-35)

PERIODICAL: "Elektricheskie Stantsii" (Power Stations), 1957,
Vol.28, No.2, p. 87 (U.S.S.R.)

ABSTRACT: The guide tubes on these circuit breakers accumulate carbon, dirt and moisture because they are made in the form of completely closed cylinders. When the switch is overhauled these guide tubes must be completely dismantled which takes a long time. It has been found best to cut two slots in the tube, protecting the cut edges with varnish; it is then quick and easy to inspect and clean the tubes from the outside. The manufacturers should take note.

AVAILABLE:

Card 1/1

MUSATOV, T.P., inzhener.

Automatic reclosing (APV) for transformers. Elek. sta. 28 no.5:
(MLRA 10:6)
'87 My '57.

(Electric transformers)

MUSATOV, T.P., inzhener.

Switching in power transformers without inspecting removable parts.
Elek. sta. 28 no.6:79-80 Je '57. (MIRA 10:8)
(Electric transformers)

MUSATOV, T.P., inzhener.

Comparative evaluation of the indices of capacity of network regions
of the power system. *Elek.sta.* 28 no.8:54-56 Ag '57. (MIRA 10:10)
(Electric power)

SOV-91-58-4-14/29

AUTHORS: Musatov, T.P. and Kovalenko, V.P., Engineers

TITLE: "35 kv" Current Transformers with "PB" Type Insulators
(Transformatory toka 35 kv vnutrenney ustanovki na izo-
lyatorakh tipa PB)

PERIODICAL: Energetik, 1958, Nr 4, pp 19-20 (USSR)

ABSTRACT: In some distribution systems, the 35 kv current transformers of the "TP" type still have bakelite insulation. They are not being manufactured any more by the Soviet industry, but a great number of them are still in service. For the replacement of bakelite current transformers, the workshops of the Stalinskiy setevoy rayon Donbassenergo (Stalino "Donbassenergo" Network Sector) have manufactured current transformers, the cores of which were fixed on the flange of "PB-35" type bushings (Figure 1). There are 25 current transformers of this kind in service. For manufacturing the cores for current transformers, transformer steel of "E4A" grade or steel taken from old built-in 110 kv current transformers is utilized. Asbestos-cement or asbestos-slate baffles rigidly fastened between bakelite "TP-35" type current transformers can temporarily increase their service reliability.

Card 1/2

SOV-91-58-4-14/29

"35 kv" Current Transformers with "PB" Type Insulators

There is 1 photo and 2 diagrams.

1. Transformers--Manufacture 2. Transformers--Materials

Card 2/2

SOV-91-58-4-22/29

AUTHOR: Musatov, T.P. and Kolendovskiy, A.S., Engineers

TITLE: The Defective Functioning of a Gas Protection (Lozhnaya rabota gazovoy zashchity)

PERIODICAL: Energetik, 1958, Nr 4, p 27 (USSR)

ABSTRACT: This article describes how a 31.5 megavoltampere transformer installed at a 110 kv substation was switched off from the gas protection by an incorrect operation of the relay. It was found out during the test that the structure bearing the transformer expander was not rigid enough. Vibrations were caused by shocks, which resulted in spilling the mercury contained in the shells of the gas relay, closing the signal contacts and switching off the transformer. To increase the rigidity of the structure bearing the expander, the structure has been joined at 4 points to the metallic gantry of the transformer. There is 1 photo.

1. Transformers--Safety devices 2. Explosive gases--Safety devices
3. Relays--Failure

Card 1/1

MUSATOV T. P.

105-58-4-21/37

AUTHORS: Kudryashov, S. A., Engineer, Moronov, Ye. P., Docent,
Musatov, T. P., Engineer, Dvoskin, L. I., Engineer

TITLE: Objective Method for the Evaluation of Schemes of Electric
Connections (Ob'yektivnyy metod otsenki skhem elektricheskikh
soyedineniy)

PERIODICAL: Elektrichestvo, 1958, Nr 4, pp. 74-77 (USSR)

ABSTRACT: This is a reaction to the article by L. I. Dvoskin in Elektrichestvo, 1956, Nr 8. 1. The specific deficiency of the belt-contact must be added to table 1. The formula (1) does not take into account the influence of damage of the connections of sectional introductions on the increase of the annual damage. The assumption that with a decrease of the number of lines to the consumers in every section, the probability of damage decreases must be made more precise. 2. The suggested method is interesting. It is, however, unacceptable. a) The conclusion of the probability of the disconnection was drawn from mean statistical data and therefore can be completely wrong.

Card 1/3

105-58-4-21-57

Objective Method for the Evaluation of Schemes of Electric Connections

b.) A conclusion valid today can be completely wrong in 1-2 years at the present development of engineering. 3. The suggestion of regarding the specific damage of the electrical equipment as an objective index must be fully rejected as this would only lead to a distortion of the real representation. 4. Dvoskin never designed for specific damage a basic index. Whether Musatov likes it or not, the susceptibility of the electrical equipment always supplies doubtlessly objective and very important data for the evaluation of electric connection schemes. The proposal by Kudryashov (bolt contact) is not regarded as useful by Dvoskin. Dvoskin replies to Mironov's answer that the data on the susceptibility of the equipment are not invariable and constantly change with progress. There are 3 figures, and 1 table.

Card 2/3

Objective Method for the Evaluation of Schemes of
Electric Connections

105-58-4-21/5

ASSOCIATION: 1) Kuybyshevskoye otdeleniye Elektroproyekta
(Kuybyshev Branch of the Electroproject)
2) Novochoerkasskiy politekhnicheskiy institut
(Novochoerkassk Polytechnical Institute)
3) Donbassenergo

AVAILABLE: Library of Congress

1. Electrical equipment-Theory
2. Damage control-Theory
3. Connectors (Electrical)-Study and teaching

Card 3/3

AUTHOR: - ~~Misatov, T.P.~~
Lysenko, A.A.

SOV/94-58-10-3/20

TITLE: Automatic Repeated Reclosure on 3-10 kv Lines
(Avtomaticheskoye povtornoye vlyucheniye na
liniyakh 3-10 kv)

PERIODICAL: Promyshlennaya Energetika, 1958, Nr 10 pp 7-10 (USSR)

ABSTRACT: Automatic repeated reclosure is widely used on transmission lines but is not being introduced quickly enough on 3-10 kv lines in power systems and particularly on Consumers' sub-station lines. The recent tendency to leave power system sub-stations unattended has made it necessary to extend the use of automatic repeated reclosure on lines to power consumers. This has proved very effective as is shown by the tabulated data for the Stalino region of Donbassenergo which shows that repeated reclosure at consumers' connections gave a satisfactory operation of 60% over a three year period. There is a lack of simple, reliable and cheap reclosure equipment. Weight and spring operated drives are most simply used but sub-stations with accumulators usually employ relatively complicated

Card 1/3

SOV/94-58-10-3/20

Automatic Repeated Reclosure on 3-10 kv Lines

and expensive electro-magnetic drives. In order that the use of automatic repeated reclosure should be freely extended the so-called relayless systems should be generally used. A simple design has been proposed by E.A. Ryazantsev but has so far been little used. Figs.1,2 and 3 show the arrangement and kinematic diagram for three different positions of the automatic reclosure mechanism proposed by Ryazantsev. The equipment is described and its operation explained. This equipment is designed to give only one reclosure before manual resetting. Equipment of this kind has given very satisfactory service for two years. This type of equipment can be arranged to operate with remote controlled drive, an example is given in Fig.5. There is an editorial note pointing out the

Card 2/3

SOV/94-52-10-3/20

Automatic Repeated Reclosure on 3-10 kv Lines

desirability of using relayless automatic reclosure
on 3-10 kv sub-stations. There are 5 figures and
1 Soviet literature reference.

ASSOCIATION: Donbassenergo

Card 3/3

AUTHOR: Musatov, T.P., Engineer SOV/91-58-12-10/20

TITLE: **Reclosure of Transformers** at Remote-Control Substations
(Povtornoye vklyucheniye transformatorov na teleupravlyayemykh podstantsiyakh)

PERIODICAL: Energetik, 1958, Nr 12, pp 18-19 (USSR)

ABSTRACT: The author gives advice aimed at making the remote-control of the transformers' protective devices installed at automatic substations easier and safer. Standard circuitry operating differential, gas and maximum protection devices of the transformers must be changed in such a way that in emergency they can be switched-in again by means of remote control. The repeated switch-in of transformers disconnected by any protective system because of internal failures, is allowed only after their inspection by the maintenance personnel.
There is 1 Soviet reference.

Card 1/1

YEREMIOV, A.A., inzh; SEULIN, N.A., inzh; CHIZHISHIN, P.L., inzh.; CHEPELE, Yu.M., inzh.; MUSATOV, T.P., inzh.; FEDOROV, A.A., kand.tekhn.nauk; YAROSHETSKIY, L.M., inzh.; GOL'DENBLAT, B.I., inzh.; KUDRYASHOV, S.A., inzh.; ZAKHAROV, N.N., inzh.; SHCHUKIN, B.D., inzh.

Improving planning of industrial power supply. Prom. energ. 13 no.7: 18-29 J1 '58. (MIRA 11:10)

1.Tyashpromielektroproyekt. (for Yermilev). 2.Zhemproyektas, g.Kaunas (for Chepele). Danbassenerge (for Musatov). 4.Moskovskiy energeticheskiy institut (for Fedorov). 5.Usgipovedkhoz. g. Tashkent (for Yaroshetskiy). 6.Proyektnyy institut Ministerstva stroitel'stva USSR, Odessa (for Gol'denblat). 7.Elektroproyekt, g.Kybyshov (for Kudryashov). 8.Gosradioelektronika (for Zakharov). 9. Sidreproyekt, g. Kybyshov (for Shchukin).

(Electric power)

MUSATOV, T.P., inzh.

Problems of electric-power saving in the Stalino Economic
Region. Prom. energ. 13 no.8:37-38 Ag '58. (MIRA 11:10)
(Stalino Province--Electric power distribution)

MUSATOV, T.P.

MUSATOV, T.P., inzh.; SELEZNEVA, G.N., inzh.

Quantity of adsorbent necessary for continuous regeneration of
power transformer oil. Elek.sta. 29 no.1:85-86 Ja '58.

(MIRA 11:2)

(Insulating oils) (Silica)

~~MUSATOV, T. P.~~ inzh.

For wide use of remote control of high-voltage substations. Elek.
sta. 29 no.3:54-55 Mr '58. (MIRA 11:5)
(Electric substations) (Remote control)

MUSATOV, T.P., inzh.

~~Breakage~~ Breakage of the conductor in the jumper as a result of "galloping."
Elek.sta. 29 no.3:90 Mr '58. (MIRA 11:5)
(Electric lines--Overhead)

MUSATOV, T. ^(p)linzh. (g.Stalino)

Initiative of the primary organization. NTO no.2:45 Y '59.
(MIRA 12:2)

(Stalino--Electrification)

8 (6), 9 (2)

SOV/91-59-11-12/27

AUTHOR: Musatov, T.P., Engineer

TITLE: A Breakdown of a Contact Ring of a Synchronous Capacitor

PERIODICAL: Energetik, 1959, Nr 11, p 19 (USSR)

ABSTRACT: The author describes the causes of a contact ring breakdown on a KhTGZ synchronous capacitor (10,000 kvar, 750 rpm). The contact ring was destroyed in the area where the conductor to the neighboring contact ring was passing through. The steel contact rings are connected by copper conductors which are mounted in wooden brackets. The conductors are insulated by bakelite tubes. Three months before the breakdown, the synchronous capacitor had been overhauled. One of the wooden brackets had been damaged and was replaced by a new one. The wood of the new bracket had not been sufficiently dried prior to installing. When the wooden bracket dried, the conductor lost its support and began to vibrate whereby the bakelite insulation tube was gradually destroyed in the area where it passed thru the flange of

Card 1/2

SOV/91-59-11-12/27

A Breakdown of a Contact Ring of a Synchronous Capacitor

the rotor shaft. The resulting short circuit heat destroyed the insulation of the conductor. The short circuit was then transferred to the second contact ring which was destroyed. The author stated that this was the first incident with synchronous capacitors in a particular network since 20 years. Four synchronous capacitors of the same type are in operation in this network. The possibility of vibration of the current conductors accompanied by a destruction of their insulation should be taken into consideration when assembling new synchronous capacitors, or old ones after overhaul. There is 1 diagram.

Card 2/2

MUSATOV, T.P., insh.

Approach and crossing of buildings and structures by overhead power
lines. Elek.sta. 30 no.1:70-71 Ja '59. (MIRA 12:3)
(Electric lines--Overhead)

MUSATOV, T.P., inzh.

Are the reserve windings for power transformers needed?

Elek. sta. 30 no.3:87-88 Mr '59.

(MIRA 12:5)

(Electric transformers)

MUSATOV, T., inzh.

New safety regulations for operating electric units of stations
and substations. Besop.truda v prom. 4 no.3:39 '60.
(MIRA 13:6)
(Electric power distribution--Safety measures)

MUSATOV, T. P. inzh.

Crossings of electric power lines. Energetik no. 5:7-9 My '60.
(MIRA13:8)

(Electric power lines--Overhead)

MUSATOV, T.P., inzh.

Changing the aperture in the breather plug of the transformer
exhaust pipe. Energetik 8 no.6:15-16 Je '60. (MIRA 13:7)
(Electric transformers)

MUSATOV, T.P.

Reserve-type connections in the electric power networks of industrial enterprises. Prom. energ. 15 no.11:12-13 N '60.
(MIRA 14:9)

(Electric power distribution) (Electric protection)

MUSATOV, T.P., inzh.

New devices for the disconnection of live wires from suspension
insulators. Elek.sta. 31 no.1:53-55 Ja '60.

(MIRA 13:5)

(Electric lines--Overhead)

MUSATOV, T.P., inzh.

Electric substations without cutouts on lines on the high voltage side. Elek. sta. 31 no.3:84-85 Nr '60. (MIRA 13:8)
(Electric substations) (Electric switchgear)

MUSATOV, T.P., inzh.

Operation of a telescopic tower with an insulating link. Energetik
9 no.1:7-10 Ja '61. (MIRA 16:7)

(Electric lines---Overhead)

MUSATOV, T.P., inzh.

Breaking of glass suspension insulators in a compensated 35 kv.
electric power network. Energetik 9 no.8:23-25 Ag '61.
(MIRA 14:8)
(Electric lines--Overhead) (Electric insulators and insulation)

MUSATOV, T.P., inzh.

Improvement in the provisions for climbing towers. Energetik
9 no.9:21-22 S '61. (MIRA 14:9)
(Electric lines--Poles) (Electric lines--Overhead)

S/196/62/000/004/009/023
E194/E155

AUTHORS: ~~Musatov~~, T.P., and Soroka, I.F.

TITLE: Converting synchronous compensators to reactor starting

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.4, 1962, 7-8, abstract 4 E44. (Elektr. stantsii, no.10, 1961, 86-87).

TEXT: The auto-transformers and starting-motor methods of starting a synchronous condenser are complicated and unreliable, and so operating circular 3-5/54 (E-5/54) recommends going over to direct-on-line starting, or reactor starting (if the voltage drop on the busbars is too great for direct switching of the machine) with the exciter solidly connected. When the use of a single-bearing starting motor is replaced by reactor starting, the economic effect depends on the pay-off time of the reactor set against the absence of mechanical losses in the starting-motor, thus:

Card 1/2

Converting synchronous compensators... S/196/62/000/004/009/023
E194/E155

$$P_{\text{mech}} = (0.7 \sim 0.9) \sqrt[3]{\frac{n}{1000}} \sqrt[4]{\frac{1000}{P_2}} \quad (\%)$$



which usually does not exceed 3 years for one synchronous condenser. If there are several machines at the substation and starts are rare, it is recommended to use one reactor for them all, making connections by 'starting' isolators.

[Abstractor's note: Complete translation.]

Card 2/2

MUSATOV, T.P., inzh.

Concerning the saving of electric control cables. Elek. sta. 32
no.2:81 F '61. (MIRA 16:7)
(Electric power plants) (Electric lines)

LYSAKOVSKIY, G.I., kand.tekhn.nauk; MUSATOV, T.P., inzh.

Methods for preventing the burning of wooden poles. Elek. sta, 32
no. 5:87-88 My '61. (MIRA 14:5)
(Electric lines—Poles) (Lightning protection)

MUSANOV, T.P., inzh.

Selecting the place for the installation of starting
devices. Elek.sta. Ch. 10. S '61. (MIRA 14:1)
(Electric circuit breakers)

MUSATOV, T.P., inzh.

Placement of supports at power line crossings in areas with frequent ice crust formations. Elek. sta. 32 no.11:91-92 N '61.

(MIRA 14:11)

(Electric lines--Overhead)

MUSATOV, T.P.; SOROKA, I.F.

Concerning the operation of synchronous compensators manufactured by the V.I.Lenin factory in the city of Pilsen in Czechoslovakia. Energ.1 elektrotekh.prom. no.4:64-67 O-D '62. (MIRA 16:2)

1. Glavnoye upravleniye energeticheskogo khozyaystva Dnepetrovskogo basseyna.

(Electric substations)

(Electric machinery)

MUSATOV, T.P., inzh.

Concerning hand operated hoists. Energetik 10 no.1:25-26 Ja
'62. (MIRA 14:12)

(Hoisting machinery)

MUSATOV, T.P., inzh.; KOLEDOVSKIY, A.S., inzh.

Increased safety measures for work on electric power distribution
devices. Energetik 10 no.2:18-20 F '62. (MIRA 15:2)
(Electric power distribution—Safety measures)

MUSATOV, T.P., inzh.

Operation of unattended substations. Energetik 10 no.5:28-31

My '62.

(MIRA 15:5)

(Electric substations)

MUSATOV, T. P., inzh.; KOLEDOVSKIY, A. S., inzh.

Concerning the operation of GRU 35-110 kv. line disconnecting
switches operating in districts with air pollution. Energetik
10 no.8:4-6 Ag '62. (MIRA 15:10)

(Electric cutouts)

(Electric power distribution—Equipment and supplies)

MISATOV, T.P.

More about auxiliary connections in electrical networks. Prom. energ.
17 no.8:49-50 Ag '62. (MIRA 16:4)
(Electric networks) (Electric power distribution)

MUSATOV, T.P., inzh.

The quality of work in splicing the wires of power transmission
lines should be improved. Elek. sta. 33 no.7:87-88 J1 '62.
(MIRA 15:8)
(Electric lines—Overhead)

MUSATOV, T.P., inzh.; MIKHAYLETS, D.G., inzh.

Erection of additional line and spur line supports on two circuit
110-220 kv. power distribution lines without interruption to
service. Elek. sta. 33 no.8:76-77 Ag '62. (MIRA 15:8)
(Electric power distribution) (Electric lines--Overhead)

MUSATOV, T.P., inzh.

Concerning the exhaust pipe of an electric power transformer.

Elek. sta. 33 no.10:87-88 0 '62. (MIRA 16:1)

(Electric transformers)

MUSATOV, T.P.

Temporary use of a section of a large power transmission line
for decreasing the power losses of a low-voltage power trans-
mission line. Energ. i elektrotekh. prom. no.2:67-68 Ap-Je '63.
(MIRA 16:7)

(Electric power distribution)

MUSATOV, T.P., inzh.; SELEZNEVA, G.N., inzh.

Transformer oil in 110 kv. MV entrances and electric transformers.
Energetik 11 no.4:23-24 Ap '63. (MIRA 16:3)
(Insulating oils)

MUSATOV, T.P., inzh.

Protection of 35 kv. transformers by protectors in outdoor-
type power distribution systems. Energetik 11 no.7:18-21
Jl '63. (MIRA 16:8)

(Electric power distribution)
(Electric protection)

LYSAKOVSKIY, G.I., kand. tekhn. nauk; MUSATOV, T.P., inzh.

Simplified lightning protection systems of electric substations.
Elek. sta. 32 no.1:76-78 Ja '61. (MIRA 16:7)

(Electric substations) (Lightning protection)

MUSATOV, Tikhon Pavlovich, inzh.; ZUBANOV, K.V., inzh., retsenzent;
TKACHENKO, L.N., inzh., red.izd-va; MATUSEVICH, S.M.,
tekhn. red.

[Operation of substations containing remote control systems]
Ekspluatatsiia telemekhanizirovannykh podstantsii; opyt
"Donbassenergo" Kiev, Gostekhizdat USSR, 1963. 22 p.
(MIRA 16:10)

(Electric substations) (Remote control)

MUGATOV, T.F., izzh.

Simplification of primary communication networks in high-voltage
substations. Energ. i elektrotekh., num. 10, 15-57 Oct '63.

(MIRA 17010)

17. The first of these is the fact that the

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MUSATOV, T.P., inzh.; SOROKA, I.F., inzh.

Conversion to air cooling of the bearing oil of synchronous
compensators. Elek. sta. 34 no.7:83-84 J1 '63.
(MIRA 16:8)

MUSATOV, T.P., inzh.

Inspection of the guiding pipe of VM-35 and VMD-35 cutouts.
Elek. sta. 34 no.10:85 0 '63. (MIRA 16:12)

MUSATOV, T.P., inzh.

Cleaning of power distribution equipment and problems of safety.
Energ. i elektrotekh. prom. no.4:66-67 O-D '64.

(MIRA 18:3)

MUSATOV, T.P., inzh.

Frequency of the repair of principal electrical systems of industrial enterprises. Prom. energ. 19 no.11:16-17 N '64.

(MIR 18:1)

MM TCV, T.P., inch.

Checking of pressed connectors without removing the potential.
Elek. sta. 35 no. 2.26.87 Mt 16L. (VIRA 2716)

MUSATOV, T.P., inzh.; SOROKA, I.F., inzh.

Shunting of reactors by disconnectors. Elek. sta. 35
no.2:88-89 F '64. (MIRA 17:6)

MUSATOV, T.P., inzh.

Connection of dead spur lines to electric power transmission lines.
Elek. sta. 35 no.9:89 S '64. (MIRA 18:1)

MUSATOV, T.P., inzh.; KAMKOV, P.A., inzh.

Transportation of electric transformers on railroads. Energ. i
elektrotekh. prom. no.2360-61 Ap-Je '65.

(MIRA 18:8)

MUSATOV, T.P., inzh.

Passing of the electric power transmission lines under cable-
ways. Elek. sta. 36 no.2;79-80 F '65. (MIRA 18:4)

MUSATOV, T.P., inzh.

Number of insulators on the poles of overhead lines crossing railroad tracks. Energetik 13 no.10:23-24 0 '65.

(MJRA 18:10)

MUSATOV, T.P., inzh. ANTROPOV, A.P., inzh.

Organization of the operation of complex electric power plants.
Elek. sta. 36 no.9:72-74 S '65. (MIRA 18 7)

1. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo
basseyina (for Musatov). 2. Kalininenergo (for Antropov).

LYSAKOVSKIY, G.I., kand. tekhn. nauk, MUSATOV, T.P.

Experience in the operation of a two-circuit power transmission
line with "bochka" type towers. Energ. i elektrotekh. prom.
no.3:61-64 J1-S '62. (MIRA 18:11)

1. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo
basseyna.

GEL'MAN, N.L., inzh.; BELOBRZHESKIY, N.A., inzh.; MUSATOV, T.P., inzh.;
SOROKA, I.F., inzh.

Time intervals between repairs. Elek. sta. 36 no.9:74-76 S '65.
(MIRA 18:9)

1. Rostovskoye rayonnoye upravleniye energeticheskogo khozyaystva
(for Gel'man, Belobrzheskiy). 2. Glavnoye upravleniye energeti-
cheskogo khozyaystva Donetskogo basseyna (for Musatov, Soroka).

KUZNETSOVA, Zoya Nikitichna (1925-); MUSATOV, V., red.

[Leaders among row crop growers] Lidery propashnykh. Moskva, Mosk. rabochii, 1964. 42 p. (MIRA 17:4)

1. Inspektor-organizator Leninskogo proizvodstvennogo upravleniya Moskovskoy oblasti (for Kuznetsova).

SPERANSOV, Nikolay Nikolayevich; MUSATOV, V., red.

[How to prevent petroleum product losses] Kak predupre-
dit' poteri nefteproduktov. Moskva, Mosk. rabochii, 1963.
66 p. (MIRA 17:5)

SHELUDYAK, Nikolay Ivanovich; PUSATOV, V., red.

[Land improvement and fertilizers] Melioratsiia i unob-
renie. Moskva, Mosk. rabochii, 1964. 34 p.
(MIRA 17:7)

METLITSKIY, Zusi'ya Abramovich; MUGAT'V, V., red.

[The apple tree] Fabionia. Izd. 4., dop. i perer. Moskva, Morsk. rabochii, 1964. 328 p. (MIRA 1966)

ZUBKOV, Boris Vasil'yevich; MUSLIN, Yevgeniy Salimovich;
MUSATOV, V., red.

[One hundred homemade collective farm implements] Sto
kolkhoznym samodelok. Moskva, Mosk. rabochi, 1964. 94 p.
(MIRA 18:9)

USSR/Zooparasitology. Ticks and Insects as Disease Vectors.
Mites.

G

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77031.

Author : Musatov, V.A.

Inst :

Title : Morpho-Physiological Changes in the Organism of the
Tick Rhipicephalus bursa Can et Fanz (1877) Under the
Action of Preparations of DDT and Hexachlorane in
Connection with the Evaluation of Their Effectiveness.
Report I.

Orig Pub: Tr. Mosk. vet. akad., 1957, 19, No 1, 210-223.

Abstract: The initial period of the toxic effect of prepara-
tions of DDT and hexachlorane on starved specimens
and those which have fed the females of the Rh.
bursa appears, first of all, in the changes of the

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USSR/Zooparasitology. Ticks and Insects as Disease Vectors.
Mites.

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period of excitability is characterized by no change of character of forward movements, but an increase in the frequency of contractions of the dorso-ventral musculature of the body, with which signs of poisoning appear significantly later than in the starved specimens. The influence of the hexachlorane poisoning on the cardiac activity of the ticks was judged by the rhythmic fluctuations of the Malpighian tubules in the newly moulted males and in the gravid *Rh. bursa* females. In normal specimens, contractions of the heart and the fluctuations of the Malpighian tubules connected with them occur at equal intervals of time; in those poisoned, long pauses are observed between separate

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USSR/Zooparasitology. Ticks and Insects as Disease Vectors.
Mites.

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Abs Jour: Ref Zhur-Biol., No 17, 1958, 77031.

During poisoning with DDT, the rise of transpiration is not as significant. Females poisoned with toxic doses of hexachlorane, did not hatch eggs, although their genital tracts were full of mature eggs. In these females, spasmodic contractions of the muscles surrounding the vagina and an affliction of the accessory sex glands were found. Subtoxic doses of hexachlorane and toxic doses of DDT exerted no essential influence on the fertility of the females and on the development of larvae, but the hatched larvae were less viable. In a majority of cases, the larvae developed in the tested group with an impairment of coordinated movements of the extremities which was observed immediately after hatching,

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MUSATOV, V.A.

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(Machine tools) (Automatic control)

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no.11:33-35 '61. (MIRA 14:12)
(Podol'sk--Machine-tool industry) (Automation)

MUSATOV, V. M.

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(Vestn. Mash., 1948, no. 8, p. 66-68)

Quickly interchangeable bottom boards for molding machines.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
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MUSATOV, Viktor Nikolayevich; ZAGORSKIY, G., red.; YAKOVLEVA, Ye.,
tekhn.red.

[At increased speeds] Na povyshennykh skorostiakh. Moskva,
Mosk.rabochii, 1961. 28 p. (MIRA 14:7)
(Corn (Maize)) (Agricultural machinery)

AKATOV, Yevgeniy Ivanovich; BELOV, Pavel Mitrofanovich; D'YACHENKO,
Nikolay Kharitonovich, prof., doktor tekhn.nauk; MUSATOV,
Vitaliy Sergeyevich; ZHDANOVSKIY, N.S., doktor tekhn.nauk,
retsensent; DUBUSOVA, G.A., red.isd-va; FRUMKIN, P.S., tekhn.red.

[Performance of a motor-vehicle engine under unsteady conditions]
Rabota avtomobil'nogo dvigatelya na neustanovivshemsia rezhime.
Pod red. N.Kh.D'iachenko. Moskva, Gos.nauchno-tekhn.isd-vo mashino-
stroit.lit-ry, 1960. 247 p. (MIRA 13:4)
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D'YACHENKO, Nikolay Kharitonovich, doktor tekhn. nauk, prof.; DASHKOV, Sergey Nikitich, doktor tekhn. nauk, prof.; MUSATOV, Vitaliy Sergeevich, kand. tekhn. nauk; BELOV, Pavel Mitrofanovich, kand. tekhn. nauk, prof.; BUDYKO, Yuriy Ivanovich, kand. tekhn. nauk. Primarni uchastiye: BURYACHKO, V.R.; GUGIN, A.M.; ZHDANOVSKIY, N.S., doktor tekhn. nauk, prof., retsenzent; YURKEVICH, M.P., inzh., red. izd-va; PETERSON, M.M., tekhn. red.

[High-speed piston internal combustion engines] Bystrokhodnye porshnevye dvigateli vnutrennego sgoraniya. Moskva, Mashgiz, 1962. 368 p. (MIRA 15:7)

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1. MUSATOV, V.V.
2. USSR (600)
4. Volga-Don Canal - Architecture
7. Assembly of sectional architectural parts on the structures of the Volga-Don Navigation Canal. *Biul.stroi.tekh.* 9 no. 14 1962

9. Monthly List of Russian Accessions, Library of Congress, March.1963.Unclassified.

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applied to low-compressible fluids". Izv.AN SSSR.Otd.tekh.nauk
no.2:119 F '57. (MLRA 10:5)
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no.3:347-352 My-Je '57. (MIRA 10:10)
(Waves) (Eigenfunctions)

MUSATOV, V.V. (Novosibirsk)

Calculating nonstationary flow about the cascade of profiles in a
noncompressible fluid. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr.
no.3:165-169 My-Je '63. (MIRA 16:8)
(Cascades (Fluid dynamics))

L 04814-67

ACC NR: AP6025420

(N)

SOURCE CODE: UR/0143/66/000/007/0054/0061

AUTHOR: Ponyatov, V. A. (Candidate of technical sciences); Musatov, Yu. V. (Engineer)

ORG: Saratovsk Polytechnic Institute (Saratovskiy politekhnicheskiy institut)

TITLE: Determination of the most advantageous size of the heating surfaces in the boiler units of steam gas plants

SOURCE: IVUZ. Energetika, no. 7, 1966, 54-61

TOPIC TAGS: gas turbine engine, steam boiler

ABSTRACT: The article is devoted to determination of the optimum temperature gradients and gas velocities at the heating surfaces of boiler units operating under pressure feeding. Under these conditions, the total temperature effect due to radiation (q_{ρ}) of a boiler unit is a variable at constant temperature of the gases (T'') at the outlet from the furnace, and varies according to a linear law as a function of Δt :

$$q_{\rho} = \psi c_{\rho m} (T'_a - T'' + t \Delta t), \quad (1)$$

where T'_a is the absolute theoretical combustion temperature,

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UDC: 621.180+621.44

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ACC NR: AP6025420

conventionally determined at $\Delta t = 0, ^\circ K$; ξ is a coefficient taking into account the difference of the heat capacities of the gases in the furnace (c_{pm}^T) and in the temperature interval of the exiting gases and the surrounding medium (c_{pm}^{yx}); $\xi = \frac{c_{pm}^{yx}}{c_{pm}^T}$; Φ is the coefficient of heat

retention. Based on data calculated according to the proposed method, a figure allows selection, based on the heating value and the type of fuel, of the optimum values of the minimum temperature gradient in the boiler unit of a steam gas plant with a K-200-130 LMZ turbine, within the limits of 25-110 $^\circ C$. Orig. art. has: 26 formulas and 4 figures.

SUB CODE: 20, 21/ SUBM DATE: 03Nov65/ ORIG REF: 005/ OTH REF: 001

Card 2/2 *gd*

L 05212-67 EWP(f) WW

ACC NR: AP7000766

SOURCE CODE: UR/0143/66/000/005/0046/0053

AUTHOR: Ponyatov, V. A. (Candidate of Technical Sciences); Zmachinskiy, A. V. (Candidate of Technical Sciences); Iusatov, Yu. V. (Engineer)

34
B

ORG: Saratov Polytechnic Institute (Saratovskiy politekhnicheskiy institut)

TITLE: Determination of most suitable backpressure in gas turbines in steam-gas installations with exhaust of combustion products into boiler unit

SOURCE: IVUZ. Energetika, no. 5, 1966, 46-53

TOPIC TAGS: steam boiler, gas turbine, steam turbine / K-200-130 steam turbine, K-300-240 steam turbine, GT-30-750 LMZ gas turbine, GT-60-750 gas turbine

ABSTRACT: An analysis of the determination of the optimal backpressure of the gasses for a steam-gas unit consisting of typical steam and gas turbines with fixed initial parameters. The method developed permits analytic calculation of the economically most suitable backpressure. The economically most suitable pressure drops for each heating surface are also found. The values calculated are: a) for the steam turbine K-200-130 with the gas turbine GT-30-750 LMZ, 1.10 bar; b) for the K-300-240 steam turbine and GT-60-750 LMZ gas turbine, 1.11 bar. A calculation formula is presented for determining the economy of the optimal gas velocities in convective surfaces of the boiler, planned for operation in steam-gas units with exhaust of the combustion products to the boiler burner. [PRS]

Card 1/10 SUB CODE: 13 / SUBM DATE: 05 May 65 / ORIG REF: 006 / OTH REF: 001

MUSATOVA, A.A., tekhnicheskii informator

Work of a technical information officer. Opyt rab. po tekhn. inform. i prop. no.4:15-16 '63. (MIRA 17:1)

1. TSekh obzhoga No.1 vol'skogo tsementnogo zavoda "Bol'shevik".

~~MUSATOVA, A. I.~~

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1. Iz Instituta malyarii i meditsinskoy parazitologii Ministerstva
zdravookhraneniya Uzbekskoy SSR.
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SKOPTSOVA, S.M., KUZNETSOVA, S.A., KARPEL', L.M., DAMANSKAYA, N.V.
FILIPPOVA, T.V.

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mat. 1 det. 3 no.6:53-58 N-D '58 (MIRA 11:12)

1. Iz Yakutskogo filiala (dir. Ye.N. Andreyev) Instituta tuberkuleza
AMN SSSR.
(TUBERCULOSIS--PREVENTIVE INOCULATION)

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9. Monthly List of Russian Accessions, Library of Congress, May 1957, Uncl.
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Akush. gin. no. 1:42-44 Jan-Feb 1953. (CIML 24:2)

1. Students. 2. Of the Department of Obstetrics and Gynecology
(Head — Prof. B. Ya. Stavskaya), Stavropol' Medical Institute.

YERMOLAYEVA, V.G.; MUSATOVA, I.S.; SHCHUKINA, M.N.

Pyridylthiazolylmethane. Part 2: Synthesis and properties
of 2-pyridyl-2'-thiazolylcarbinols. Zhur.ob.khim. 33
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(Pyridine) (Thiazole) (Methanol)

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Saponification of cellulose xanthates in homogeneous media. Khim.
volok.no.5:38-41 '64. (MIRA 17:10)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo Instituta
iskusstvennogo volokna (for Arkhangel'skiy, Musatova). 2. Moskovskiy
tekstil'nyy Institut (for Konkina).

ARKHANGEL'SKIY, D.N.; MUSATOVA, G.N.; SERAYA, L.D.; BOBROVA, T.V.;
POPOVA, L.A.; KONKIN, A.A.

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Khim. volok. no.5:27-29 '65. (MIRA 18:10)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for all except Konkin).
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MUSATOVA, K. M.

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[54-50712] 636.084.22+ 633.2/4

SO: Knizhnaya Letopis, Vol. 1, 1955